

Title (en)

Fuel injection pump for internal combustion engines

Title (de)

Kraftstoffeinspritzpumpe für Brennkraftmaschinen

Title (fr)

Pompe d'injection de combustible pour moteurs à combustion interne

Publication

EP 0624720 B1 19960306 (DE)

Application

EP 94105646 A 19940413

Priority

- DE 4316243 A 19930514
- DE 4332847 A 19930927

Abstract (en)

[origin: EP0624720A1] A fuel injection pump is proposed, which has an injected fuel quantity adjusting element (4), which is actuated by a speed lever (5, 16), which is adjustable against the force of a control spring (19) as a function of a force generated according to the engine speed, the control spring (19) being arranged between the speed lever (5, 16) and an adjusting lever (20), which can be adjusted by a swivelling control lever (22) and is supported fixed to the housing and with an idling spring (8), which in addition to the control spring (19) is coupled to the speed lever (5, 16) and is clamped between the latter and an idling spring adjusting lever (9), fixed to the housing and supported on a shaft (10), which idling spring adjusting lever can be shifted by a setting lever (11) connected to the shaft (10), which setting lever is capable of swivelling between two adjustable stops (23, 24, 33, 36) and can be set by an actuating device as a function of operating parameters of the internal combustion engine. The setting of the idling spring is adjustable by way of a coupling arrangement, according to a shifting of the control lever (22) between a minimum idle setting and a maximum idle setting. The actuating device comprises a return spring (26) acting on the setting lever (11) and the coupling arrangement, by means of which the setting lever (11) is coupled non-positively to the control lever (22) in such a way that the setting lever (11) follows the adjustment of the control lever (22) in the swivelling range between the two stops (23, 24, 33, 36). <IMAGE>

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F02D 1/04

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CPC (source: EP)

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